



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit
PO039087	ACIO01-VC	1	1	Net 30	M6061T6S1.250X14.000	6061-T6 Sheet 1.250" Thick x 14.000" Wide MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209				8	3/2/2018	8		S048548	Stock	3/6/2018	\$ 101.01 / ft
		13			M6061T6R2.375	6061-T6 Round Bar 2.375" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft				4	3/9/2018	4		S048549	Stock	3/6/2018	\$ 28.75 / ft
		14			M6061T6R3.750	6061-T6 Round Bar 3.750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						4		S048550	Stock	3/6/2018	\$ 56.25 / ft
		15			M6061T6R6.250	6061-T6 Round Bar 6.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						4		S048551	Stock	3/6/2018	\$ 147.00 / ft
Total:										20		20					

Plex 3/6/2018 4:24 PM Dart Dubois Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada
Tel (613) 632-5200

PURCHASE ORDER

PO039087

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO039087
PO Date: 2/22/18
Due Date: 2/28/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 23 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: quotation # sou0086168

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6S1.250X14.000		6061-T6 Sheet 1.250" Thick x 14.000" Wide MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209	Firmed	3/2/18	8 ft	0 ft	8 ft	\$101.01375/ft	\$808.11
							8			
									MAR 06 2018	DAS 11 9-89
2	MT-4140QT-R0.625		AISI 4140 Quenched & Tempered Steel Round Bar 0.625" Dia. AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	20 ft	0 ft	20 ft	\$2.878/ft	\$57.56
							17'			
									MAR 01 2018	DAS 11 9-89
3	MT-4140QT-R2.750		AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	6 ft	0 ft	6 ft	\$37.57666/ft	\$225.46
							6'			
									MAR 01 2018	DAS 11 9-89
4	MT-4140QT-R3.750		AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	6.167 ft	0 ft	6 ft	\$154.44341/ft	\$952.45
							6			
									18-0327	

Line Item Note please cut bar in half to heavy for receiving

Plex 2/22/18 1:26 PM dart.lavoie.chantal

2/22/2018

PURCHASE ORDER

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5	MT-4140QT-R1.000		AISI 4140 Quenched & Tempered Steel Round Bar 1.000" Dia. AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	2/28/18	10 ft	0 ft	10 ft	\$4.664/ft	\$46.64
6	M17-4-H1150-R2.000		17-4 SS Round Bar 2.000" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	3/6/18	6 ft	0 ft	6 ft	\$100.3333/ft	\$602.00
7	M17-4-H1150-R1.500		17-4 SS Round Bar 1.500" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	3/9/18	7.667 ft	0 ft	8 ft	\$56.08744/ft	\$430.02
8	M1018R3.125		1018 Round Bar 3.125 MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed	3/9/18	8 ft	0 ft	8 ft	\$60.375/ft	\$483.00
9	MT-HRS-R-2.500		Hot Rolled Steel Round Bar 2.500	Firmed	2/28/18	10 ft	0 ft	10 ft	\$13.676/ft	\$136.76
Line Item Note please cut bar in half to heavy for receiving										
10	MT-A513-T-0.750W0.188		A513 Seamless Alloy Steel Round Tubing 0.75"dia. x 0.188" Wall	Firmed	2/28/18	20 ft	0 ft	20 ft	\$4.25/ft	\$85.00
11	M6061T6R0.625		6061-T6 Round Bar .625" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	40 ft	0 ft	40 ft	\$0.99625/ft	\$39.85
12	M6061T6R0.563		6061-T6 Round Bar .563 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	96 ft	0 ft	96 ft	\$1.0897222/ft	\$104.61

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2/2018

				Items							Unit	Extended
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance			Price (CAD)	Price
13	M6061T6R2.375		6061-T6 Round Bar 2.375" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	4 ft	0 ft	4 ft			\$28.75/ft	\$115.00
14	M6061T6R3.750		6061-T6 Round Bar 3.750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	4 ft	0 ft	4 ft			\$56.25/ft	\$225.00
15	M6061T6R6.250		6061-T6 Round Bar 6.250" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	2/28/18	4 ft	0 ft	4 ft			\$147.00/ft	\$588.00

4

DAS
11
9-89

MAR 06 2018

4

DAS
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MAR 06 2018

4

DAS
11
9-89

MAR 06 2018

Grand Total: \$4,899.47

Order Notes

Procurement Quality Clauses
 A005 right of entry
 A012 chemical and physical test report
 A016 personnel qualification
 A017 raw material identification (as applicable)
 A026 certification of material conformance
 A041 quality management system
 A042 dart notification by supplier
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit
www.dartaerospace.com for further explanation.

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ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0086168

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/02/14

Revision N°

0

Prices valid until

2018/02/21

Your Order N°

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453 1 X 14" X 96" 4-5 JOURS	179.60	10.00	PI2_\$CLB	10.00	PI2		1.00	808.110	808.11
ROUND 4140 HEAT TREAT 5/8 RANDOM R4140-58H-V 4977 1 X 20' R/L 2-3 DAYS	20.86	20.00	PI_\$CLB	20.00	PI		1.00	57.560	57.56
ROUND 4140 HEAT TREAT 2 3/4 RANDOM R4140-234H-V 4931 1 X 6' 2-3 DAYS COUPE A LA SCIE SCIE 1	126.78	6.00	PI_\$CLB	6.00	PI		1.00	225.460	225.46
ROUND 4140 HEAT TREAT 3 3/4 RANDOM R4140-334H-V 4945 1 X 74" 2-3 DAYS	232.86	6.00	PI_\$CLB	6.00	PI		1.00	952.400	952.40
ROUND 4140 HEAT TREAT 1 RANDOM R4140-1H-V 4919 1 X 10' STOCK COUPE A LA SCIE SCIE 1	26.70	10.00	PI_\$CLB	10.00	PI		1.00	46.640	46.64
ROUND 17-4 H1150 2" DIA N 1 X 6' 6-8 DAYS	0.00	1.00	UN	1.00	UN		1.00	602.000	602.00
ROUND 17-4 H1150 1 1/2" DIA N 1 X 92" 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	430.000	430.00
ROUND CR 1018 3 1/8" DIA N 1 X 8' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	483.000	483.00

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0086168

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056**Date** 2018/02/14**Revision N°** 0**Prices valid until** 2018/02/21**Your Order N°****Processed by** Josianne Bourdon**Salesman** JOSIANNE**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND HR 2 1/2 RANDOM RHR-212-V 4866 1 X 10' STOCK COUPE A LA SCIE SCIE 1	166.90	10.00	PI_\$CLB	10.00	PI		1.00	136.760	136.76
		1.00	UN	1.00				13.674	
TUBE MEC 0.750 OD X .188 VARIE TME-0750188-V 6783 1 X 20' R/L STOCK	22.56	20.00	PI_\$CPI	20.00	PI		1.00	85.000	85.00
								4.25	
ROUND ALU 5/8 6061-T6 RANDOM RAL-58-V 5169 2 X 20' STOCK	14.44	40.00	PI_\$CLB	40.00	PI		2.00	19.925	39.85
								.99625	
ROUND ALU 9/16 6061-T6 RANDOM RAL-916-V 5180 8 X 12' STOCK	28.13	96.00	PI_\$CLB	96.00	PI		8.00	13.077	104.62
								1.0897914	
ROND ALU 2 3/8" OD 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	115.000	115.00
								28.75	
ROND ALU 3 3/4" OD 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	225.000	225.00
								56.25	
ROND ALU 6 1/4" OD 6061T6 N 1 X 4' 3-4 DAYS	0.00	1.00	UN	1.00	UN		1.00	588.000	588.00
								147.00	
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs) 818.83**Sub-total** 4 903.35

TVH-13 · 637.44

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.
This offer is subject and conditional to credit approval.

Approved and Accepted by : _____

Date : _____

Total (\$CAD)**5 540.79**



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy CO00075644

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ALU PLATE 1 1/4 6061-T651 RANDOM PAL-1146061-V 7453 1 X 14" X 96" HEAT: H2L0522 AC13844-TH-01/03	179.60	10.00	PI2_\$CLB	1.00			8			
2 ROUND ALU 2 3/8 6061-T6 NS RAL-238 10133 1 X 4' RM HEAT: Z00169142 AC13842-26/02	20.80	4.00	PI_\$CLB	1.00			4			
3 ROUND ALU 3 3/4 6061-T6 NS RAL-334 10134 1 X 4' HEAT: 201703076 AC13844-TH-01/03	51.96	4.00	PI_\$CLB	1.00			4			

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00075644

Customer N°

Date

Delivery date

Your order N°

Processed by

Salesman

Carrier

Credit Terme

CLI0001056

2018/02/23

2018/03/06

039087

Josianne Bourdon

OUELLETTE VALLEYFIELD

Net 30 Days

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 2

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
4 ROUND ALU 6 1/4 6061-T6 NS RAL-614 1 X 4" HEAT: Z0028320 AC13844-TH-01/03	141.30	4.00	PL \$CLB	1.00			4			
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$	0.00						

NIR : R-109516-6

Total Weight (LBS) : 393.66

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total (\$CAD) 1 966.27
Deposit 0.00
Balance 1 966.27

Prepared By :	Verified By :	Delivered By :	Time	Customer's Signature

W. 756441

DACT

P013844



SOUTHWEST ALUMINIUM (GROUP) CO., LTD.
XIPENG TOWN, JIULONG PO DISTRICT, CHONGQING CITY 401326, CHINA

MILL CERTIFICATE

DATE: 2017-07-22

PRODUCT		ALUMINUM SHEET		SPECIFICATION		ASTM B209-2007, AMS 4027N, ANSI H55.2, ASME SB209, ASM-QC-A-250/11												
AAM PO No		339889		FILE NO.		SMA 2017-27		INVOICE NO.		17304059								
Serial No	Alloy & Temper	Size (inch)	Lot No	Mechanical Property			Chemical Composition								Actual Thickness			
				Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn		Ti	Na	Others
1	A6061 T651	25.4X1231.9X2451.1	H2L0104	322-328	303-308	11-14.5	0.66	0.21	0.25	0.08	0.93	0.15	/	0.04	0.01	/	50.05	25.67-25.80MM.
2	A6061 T651	25.4X1231.9X2451.1	H2L0105	318-329	296-307	12-14.5	0.66	0.21	0.25	0.08	0.93	0.15	/	0.04	0.01	/	50.05	25.71-25.75MM.
3	A6061 T651	25.4X1231.9X2451.1	H2L0106	319-322	293-301	13.5-15	0.68	0.2	0.21	0.05	0.9	0.15	/	0.03	0.01	/	50.05	25.63-25.65, 25.82MM.
4	A6061 T651	25.4X1231.9X2451.1	H2L0106	322-330	297-301	15-18.5	0.68	0.21	0.25	0.06	0.93	0.15	/	0.04	0.01	/	50.05	25.74-25.80MM.
5	A6061 T651	25.4X1231.9X2451.1	H2L0883	318-329	303-310	11-13	0.67	0.2	0.24	0.10	0.9	0.16	/	0.04	0.02	/	50.05	25.69-26.64, 25.73MM.
6	A6061 T651	25.4X1231.9X2451.1	H2L0884	320-323	305-308	10.5-14	0.67	0.2	0.24	0.10	0.9	0.16	/	0.04	0.02	/	50.05	25.74-26.77, 25.85MM.
7	A6061 T651	25.4X1231.9X2451.1	H2L0885	320-324	298-305	11-13	0.67	0.2	0.24	0.10	0.9	0.16	/	0.04	0.02	/	50.05	
8	A6061 T651	31.75X1231.9X3670.3	H2L2207	318-323	286-300	13.5-15	0.69	0.3	0.25	0.01	0.9	0.16	/	0.04	0.01	/	50.05	30.98-32.10MM
9	A6061 T651	31.75X1231.9X3670.3	H2L2208	315-322	291-294	13.5-16.5	0.69	0.3	0.25	0.01	0.9	0.15	/	0.04	0.01	/	50.05	31.90-32.16MM
10	A6061 T651	31.75X1231.9X3670.3	H2L0522	313-319	283-292	12.5-14.5	0.67	0.3	0.24	0.08	0.9	0.15	/	0.03	0.01	/	50.05	32.12-32.35MM
11	A6061 T651	31.75X1231.9X3670.3	H2L2641	314-317	300-302	10-13	0.70	0.3	0.26	0.08	1.0	0.15	/	0.03	0.02	/	50.05	32.15-32.30MM
12	A6061 T651	50.8X1536.7X3670.3	H2L6024	323-325	296-303	11-14	0.71	0.3	0.27	0.06	1.0	0.14	/	0.02	0.01	/	50.05	51.32-51.35MM
13	A6061 T651	69.85X1536.7X3670.3	H2L1654	315-316	292-295	8.5-9	0.70	0.2	0.22	0.06	1.0	0.14	/	0.04	0.01	/	50.05	70.80-70.71MM
14	A6061 T651	76.2X1231.9X3670.3	H2L6025	332-334	298-306	12-12	0.69	0.3	0.26	0.07	0.9	0.15	/	0.04	0.01	/	50.05	76.87-76.89MM
15	A6061 T651	76.2X1231.9X3670.3	H2L6028	325-331	292-306	12-12.5	0.68	0.3	0.24	0.06	0.9	0.15	/	0.04	0.02	/	50.05	76.69-76.91MM
16	A6061 T651	114.3X1231.9X3670.3	H2L0517	323-326	291-294	12-13.5	0.70	0.3	0.26	0.06	1.0	0.15	/	0.03	0.02	/	50.05	115.15-115.40MM.



CO. 75644

DACT

PO. 13842

Certificate of Mill Test Results

BARRE RONDE ALUMINIUM 6061-T6511
2.375" DIA X 144.000"
PART NO.

FOURK 10911

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultant

de l'analyse faite par un laboratoire qualifié.
SIGNÉ PAR: LUCY TRUGLIO
Avis:

BL VIM-457660-002

15/01/15
Pg 3/4

KAISER
ALUMINIUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINIUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-631575-1		CUSTOMER PART NUMBER: 509/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 2.375+/-0.008	
KAISER ORDER NUMBER: 688476	LINE ITEM: 001	SHIP DATE: 06/11/2015	KAISER LOT NUMBER: Z00169142	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1000.000 LB	QUANTITY: 16.000 PCS	BL NUMBER: 612242	DIAMETER THICKNESS: 2.375	WIDTH: 12.000 FT	LENGTH: 12.000 FT
SHIP TO:			SOLD TO:		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00169142	0001	1	53.7	52.0	14.4	RE 95	N/A	N/A
Z00169142	0001	2	53.5	47.9	17.3	RE 91	N/A	N/A
Z00169142	0001	3	52.1	49.5	17.9	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ca	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
104892	.75	.29	.28	.09	.92	.10	.06	.02	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/3 (REAF 2012)
UNSP A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM
MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 39.0 KSI MIN ELONGATION
= 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINIUM IN THE MANUFACTURE OF THIS MATERIAL.

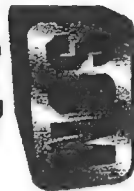
CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00180985
Kaiser Order Number: 688476
Line Item: 001



Service Center Metals

5850 Quality Way

Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Can Do.

MANIFEST NUMBER 324772	DIE NUMBER RD0027	DATE OF SHIPMENT 3/2/2017	OUR ORDER NUMBER 287353	ITEM 1
CUSTOMER PO VIM-640120	ALLOY / TEMPER 6061-T6511	SALESPERSON D. Schroeder (Canada)	CERTIFICATION ASTM-B221-14 StencilCont	
CUSTOMER PART NUMBER RD0027	DESCRIPTION Lighting Rod Tite 3.750 +/- .012		SPECIFICATION AMS-QQA-200/8 Rev-A	

Quantity Certified 2,182 lbs 14 pcs

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
	3 201703076	2/25/17	min	max	min	max	min	max
			50.50	53.30	45.80	49.60	15.60	17.10

Chemical Composition for Aluminum Alloy 6061

Cast#	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
001K170214B	201703076	6061	0.75	0.38	0.30	0.12	0.89	0.10	0.03	0.03	97.41	0.05	0.15	United States of America
091M170214B	201703076	6061	0.75	0.39	0.31	0.12	0.89	0.10	0.03	0.03	97.40	0.05	0.15	United States of America
001M170214C	201703076	6061	0.75	0.38	0.32	0.11	0.87	0.10	0.02	0.03	97.43	0.05	0.15	United States of America
001M170214E	201703076	6061	0.75	0.39	0.31	0.12	0.89	0.10	0.03	0.03	97.38	0.05	0.15	United States of America

Print Date: 3/2/2017

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/2/16

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: 5400386341-3		CUSTOMER PART NUMBER: ALRD00013		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 6.250 +/- .022	
KAISER ORDER NUMBER: 6047420	LINE ITEM: 003	SHIP DATE: 02/09/2018	KAISER LOT-NUMBER: Z00028320	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 866.000 LB	QUANTITY: 2.000 PCS	B/L NUMBER: 621768	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS(KSI)	YTS(KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00028320	0001	0001	57.3	54.0	12.4	RE 92	N/A	N/A
Z00028320	0002	0001	58.9	55.4	11.7	RE 93	N/A	N/A
Z00028320	0003	0001	55.9	52.5	13.2	RE 95	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108132	.72	.24	.27	.09	.91	.09	.01	.02	.00	.00	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00321079

Kaiser Order Number: 6047420

Line Item: 003

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6R6.250
 DATE: MAR 07 2018

PO / BATCH NO.: 039087/5048551

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 6.250
 THICKNESS RECEIVED: 6.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	As per B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 20028320
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9-11</u> DATE: <u>9-MAR 07 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R[D.DDD]
DIA

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
MJP

B	REFORMAT DWG. ADD B211& B221 SPEC (ZIN DB-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DART AEROSPACE LTD		
DRAWN	HAWKESBURY, ONTARIO, CANADA		
CHECKED	DRAWING NO.		REV B
MFG. APPR.	M6061T6R		SHEET 1 OF 1
APPROVED	TITLE		SCALE
DE APPR.	6061-T6 ROUND BAR		NTS
DATE	09.07.13		

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IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061/H613-750
 DATE: MAR 07 2018

PO / BATCH NO.: 039087/5048550

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.750
 THICKNESS RECEIVED: 3.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	Asym B221
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	Heat # 201703076
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 MAR 07 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINIUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
PART NUMBER: M6061T6R1D.DDD
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
JAP

B	REFORMAT DWG. ADD B211 & B221 SPEC. (2N D8-1). REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R			
TITLE 6061-T6 ROUND BAR			
REV. B SHEET 1 OF 1			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 H6R 2.375
 DATE: MAR 07 2018

PO / BATCH NO.: 0390875048649

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.375
 THICKNESS RECEIVED: 2.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>ASTM B221</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>Heat # 200169142</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAR 07 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221
PART NUMBER: M6061T6R(D.DDD) DIA.
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED
R 2009-09-09
JAP

B	REFORMAT DWG, ADD B211& B221 SPEC (ZN DB-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6R			
SHEET 1 OF 1			
SCALE NTS			
TITLE 6061-T6 ROUND BAR			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: m6061t651.250x14000

PO / BATCH NO.: 039087/6048548

DATE: MAR 07 2018

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.250

QUANTITY RECEIVED: 8'

THICKNESS RECEIVED: 1.250

QUANTITY INSPECTED: 8'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>Astun B209</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>Heat # H2L0522</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____		
DATE: <u>9-39 MAR 07 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S XXX THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MP

B	REFORMAT DING, ADD B209 SPEC (2N D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B SHEET 1 OF 1 SCALE N.T.S.	
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